

## CHINESE SPECIES OF HENGCHUNIA VILBASTE (HEMIPTERA, CICADELLIDAE, DELTOCEPHALINAE)

DAI Wu, ZHANG Ya Lin\*

Key Laboratory of Plant Protection Resources and Pest Management, Ministry of Education, Entomological Museum, Northwest Sci Tech University of Agriculture and Forestry, Yangling, Shaanxi 712100, China

**Abstract** Three species of the leafhopper genus *Hengchunia* Vilbaste are reported from China, of which *H. truncata* sp. nov. is described and illustrated. A key based on male genitalia is provided for the 3 Chinese species.

**Key words** Hemiptera, Cicadellidae, Deltocephalinae, *Hengchunia*, new species, China.

The Old World paralimnine leafhopper genus *Hengchunia* Vilbaste (1969) was revised by Asche & Webb (1994). Recently, Hu *et al.* (2002) reported a second species from China. In the present paper, we describe an additional new species from China bringing the total number of species for the genus to eleven. A key to the three Chinese species is proposed. These specimens observed are deposited in the Entomological Museum of the Northwest Science & Technology University of Agriculture & Forestry, Yangling, China.

### *Hengchunia* Vilbaste

*Hengchunia* Vilbaste, 1969: 8. Type species: *Thamnottix koshunensis* Matsumura.

*Pseupalus* Remane & Asche, 1980: 88. Type species: *Pseupalus graecanarus* Remane & Asche.

For the relationship and diagnosis of *Hengchunia* see Webb & Heller (1990: 2, 3).

### World checklist of the genus *Hengchunia* Ishihara

*H. breviproducta* Hu, Dai & Zhang, 2002 China.

*H. digitus* (Webb & Heller, 1990) Thailand.

*H. gaiseri* (Webb & Heller, 1990) Ivory Coast.

*H. graecanarus* (Remane & Asche, 1980) Canary Islands, Greece.

*H. helleri* (Asche & Webb, 1994) Zaire, Cameroun.

*H. india* (Asche & Webb, 1994) India.

*H. javana* (Asche & Webb, 1994) Indonesia.

*H. koshunensis* (Matsumura, 1914) China.

*H. murtus* (Webb & Heller, 1990) Philippines, Indonesia.

*H. pakistanica* (Asche & Webb, 1994) Pakistan.

*H. truncata* sp. nov. China.

### Key to Chinese species (♂)

1. Aedeagal shaft with one pair of spinose processes apically .....  
..... *H. breviproducta*  
Aedeagal shaft with two pairs of spinose processes apically ..... 2
2. Aedeagal shaft with a very short process medially just basad of midlength on anterior surface, second pair of smaller apical processes directed laterally; style apical process with a subapical lobe; subgenital

plate distally truncate ..... *H. truncata* sp. nov.  
aedeagal shaft without process medially on anterior surface, second pair of smaller apical processes directed upward; style apical process without subapical lobe; subgenital plate distally tapered .....  
..... *H. koshunensis*

*Hengchunia truncata* sp. nov. (Figs. 1-9)

Length (incl. teg.) : ♂ 3 mm.

Stramineous. Head and thorax with a pair of longitudinal brown bands dorsally. Apex of forewing brown.

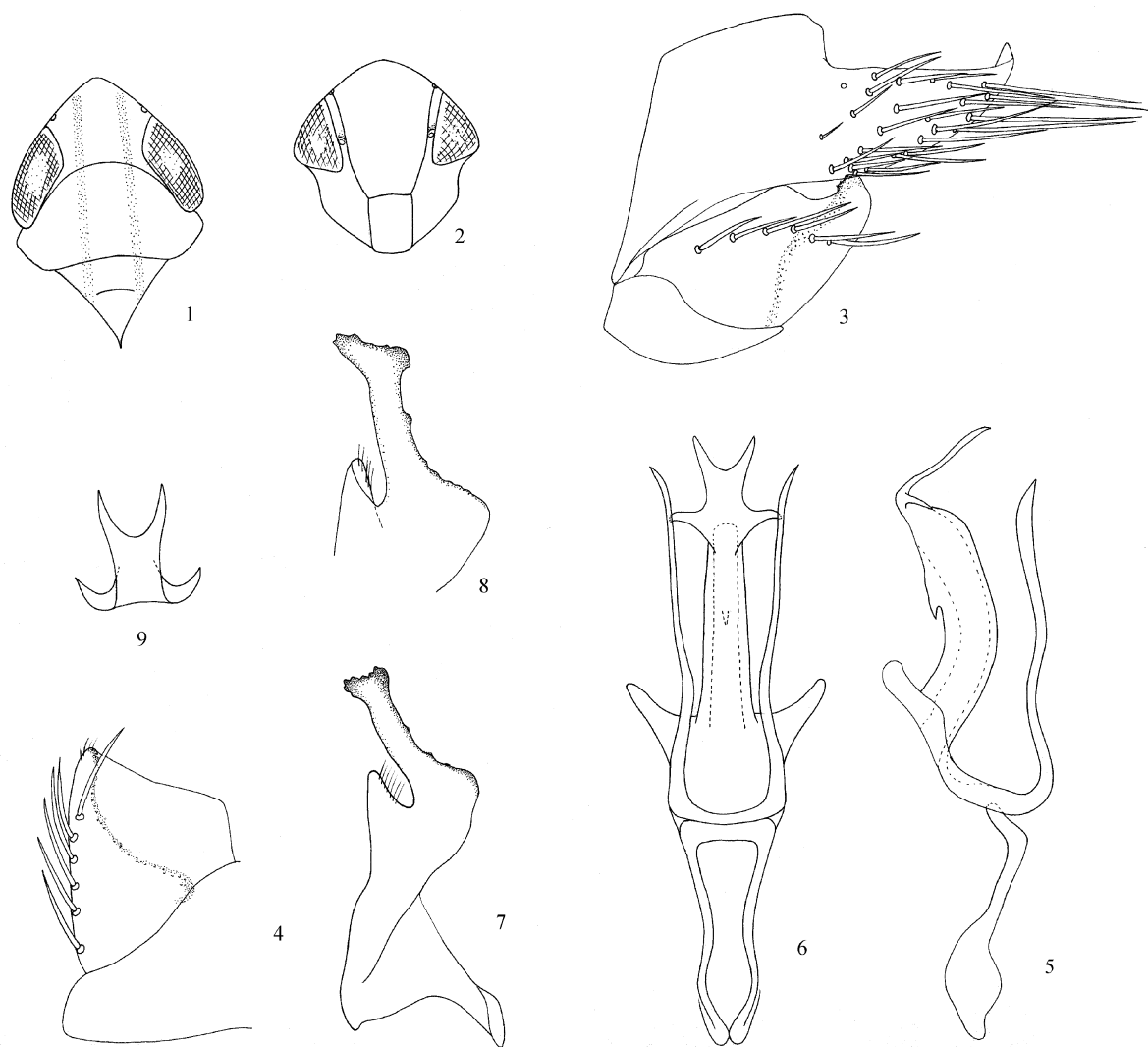
Head slightly wider than pronotum; vertex produced medially and slightly concave, shagreen anteriorly, smooth posteriorly. Clypellus similar in width throughout length. Eyes fairly large, ocelli separated from corresponding eye by approximately their own diameter. Antennae arising near lower corner of eye. Pronotum with sides short, anterior margin strongly and roundly produced, posterior margin slightly concave. Forewing with appendix very small, 4 apical cells, outer subapical cell absent.

Male genitalia with posterior pygophore lobe elongate with many large setae medially. Subgenital plate short and broad, distally truncate; a heavily sclerotized dentate area dorsoapically, toothed area extending from apex to about 1/3 of the length of the subgenital plate; a uniseriate row of macrosetae along ventrolateral margin, many fine setae ventrally along posterior margin to anterior margin. Style apical process elongate with a subapical lobe, apical margin serrate; lateral lobe well developed with a group of small setae. Aedeagal shaft elongate, cylindrical, curved anterodorsally with two pair of spinose processes apically: one pair longer directed upward, the second pair

The project was supported by the National Natural Science Foundation of China (30499341) and Northwest A & F University Youth Foundation.

\* Corresponding author, E mail: yalinzh@nwsuaf.edu.cn

Received 29 Nov. 2004, accepted 21 Jan. 2005.



Figs. 1-9. *Hengchunia truncata* sp. nov. 1. Head and thorax in dorsal view. 2. Face. 3. Pygofer, lateral view. 4. Genital valve and subgenital plate, ventral view. 5. Aedeagus, lateral view. 6. Aedeagus, ventrocaudal view. 7. Left style, dorsal view. 8. Apex of style, dorsolateral view. 9. Apex of aedeagus, caudal view.

smaller and directed laterad; a single very short process medially just basad of midlength on anterior surface; phallotreme apical; preatrium elongate with a pair of very long thin processes arising from ventral margin, directed dorsally.

Holotype ♂, Jiangxi, Shangrao, Mt. Qian, 13 Aug. 2002, coll. YUAN Zhong Lin.

This species is most similar to *H. koshunensis* (Matsumura, 1914), but it can be distinguished by: 1) aedeagal shaft with a very short process medially just basad of midlength on anterior margin, the second pair of smaller apical processes directed laterad, not upward; 2) style apical process elongate with a subapical lobe; 3) subgenital plate distally truncate.

**Etymology.** The species name is derived from the

Latin *truncatus*, indicating the truncate apex of subgenital plate.

*Hengchunia breviproducta* **Hu, Dai & Zhang, 2002**  
*Hengchunia breviproducta* Hu, Dai & Zhang, 2002: 171-173, Fig. 1-10.

**Specimens examined.** 1 ♂ (holotype), Hainan, Liangyuan, 1 June 1983, at light, coll. ZHANG Ya Lin. 1 ♂ (paratype), Hainan, Qiongzong, 4 June 1983, coll. ZHANG Ya Lin. 1 ♀ (paratype), Hainan, Tongshi, 4 June 1983, at light, coll. ZHANG Ya Lin.

**Distribution.** China (Hainan).

*Hengchunia koshunensis* (**Matsumura, 1914**)

*Thamnolettix koshunensis* Matsumura, 1914: 178.

*Hengchunia koshunensis* Vilbaste, 1969: 8, fig. 6: A-J.

Distribution. China (Taiwan).

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中国横春叶蝉属分类研究 (半翅目, 叶蝉科, 角顶叶蝉亚科)

戴武 张雅林

西北农林科技大学植保资源与病虫害治理教育部重点实验室, 西北农林科技大学昆虫博物馆 陕西杨凌 712100

摘要 对中国横春叶蝉属 *Hengchunia* Vilbaste 进行了分类研究, 确认我国现知 3 种, 其中包括 1 新种, 平端横春叶蝉 *Hengchunia truncata* sp. nov., 文中给出了该属全世界已知

种类名录, 并提供了中国已有种类的检索表。研究标本保存于西北农林科技大学昆虫博物馆。

关键词 半翅目, 叶蝉科, 角顶叶蝉亚科, 横春叶蝉属, 新种, 中国.

中图分类号 Q969.35